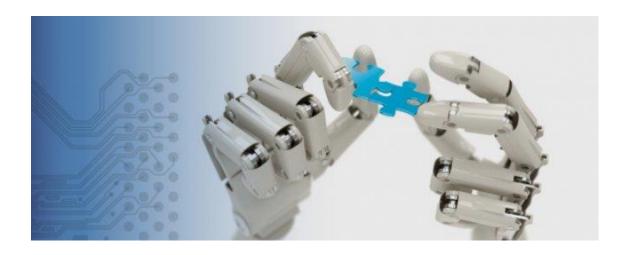
ROBOTICS MASTER

Universitat de Vic





Subject: Robotics Integration

Unit: 2: ROS

Exercixse 2.1 & 2.2: ROS Tutorials

Author: Toni Guasch Serra

Date: 2015-10-30



2.1. ROS installation (Indigo version)

http://wiki.ros.org/indigo/Installation/Ubuntu

2.2 ROS Tutorials

Create a new repository at your GitHub called "ros_tutorials" and follow the tutorials at http://wiki.ros.org/ROS/Tutorials.

Numbers 1,2,3,4,5,6,7,10,11. (8,9 are optionals). Once finished, indicate that to the professor through moodle

Find the files of tutorials 1 to 11 in the following repository of GitHub; https://github.com/ToniSkan/ROS_Tutorials_Beginner.git

There can be find all catkin Workspace. Tutorials of this exercise can be found in the following link:

https://github.com/ToniSkan/ROS Tutorials Beginner/tree/master/catkin ws/src/beginner t utorials

Listener and talker:

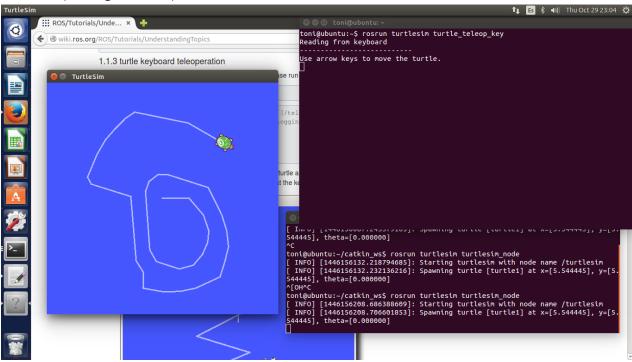
https://github.com/ToniSkan/ROS_Tutorials_Beginner/tree/master/catkin_ws/devel/lib/begin_ner_tutorials_

In the following pages screenshots to shown some progress of the tutorials:

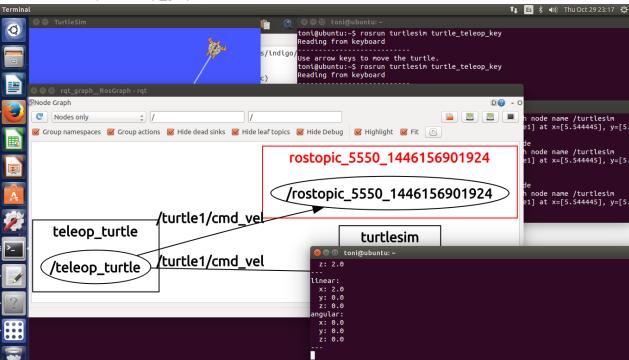




Tutorial 6 (Moving the turtle)



Tutorial 6 (rostopic and rqt_graph):

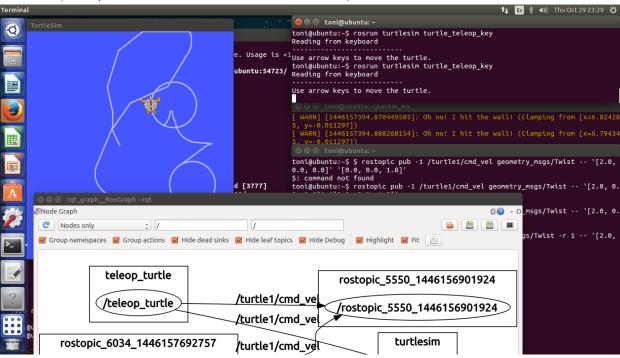


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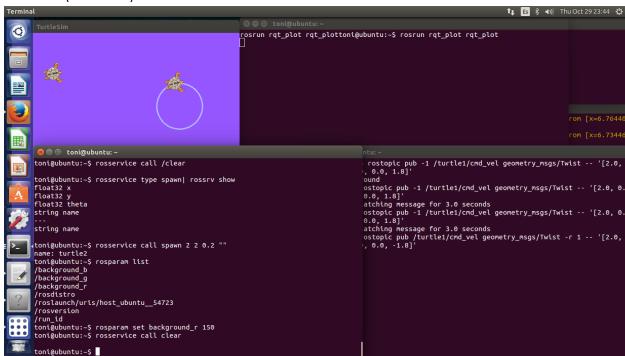




Tutorial 6 (Rostopic an automatic movements of the turtle)

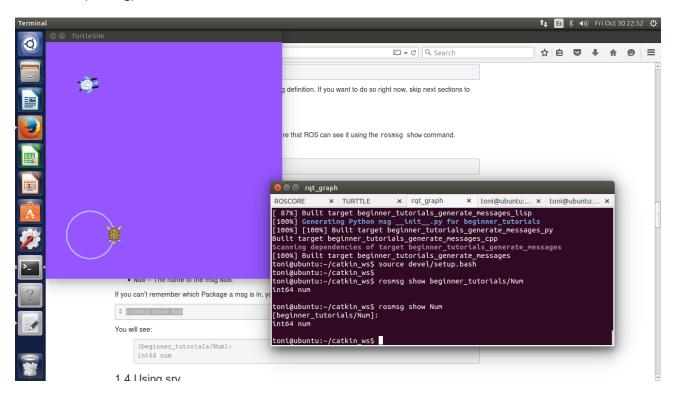


Tutorial 7 (rosservice)

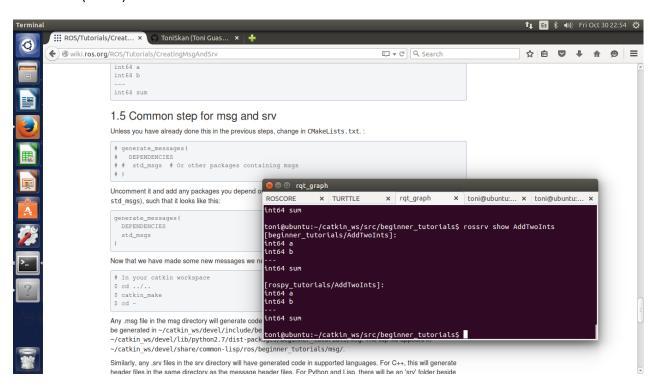




Tutorial 10 (rosmsg)



Tutorial 10 (rossrv)



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Tutorial 11 (listener and talker done)

```
🔞 🖨 📵 rqt_graph
ROSCORE
             × TURTTLE
                             x rqt_graph
                                              × toni@ubuntu:... × toni@ubuntu:... ×
toni@ubuntu:~/catkin_ws/src$ ls
beginner_tutorials CMakeLists.txt rrbot
toni@ubuntu:~/catkin_ws/src$ cd ..
toni@ubuntu:~/catkin_ws$ ls
build devel params.yaml src
toni@ubuntu:~/catkin_ws$ cd devel
toni@ubuntu:~/catkin_ws/devel$ ls
env.sh include lib setup.bash setup.sh _setup_util.py setup.zsh share
toni@ubuntu:~/catkin_ws/devel$ cd lib
toni@ubuntu:~/catkin_ws/devel/lib$ ls
beginner_tutorials
                           librrbot_hw_real.so
                                                       pkgconfig rrbot_hw
libdefault_rrbot_hw_sim.so librrbot_hw_sim_plugin.so python2.7
toni@ubuntu:~/catkin_ws/devel/lib$ cd beginner_tutorials
toni@ubuntu:~/catkin_ws/devel/lib/beginner_tutorials$ ls
listener talker
toni@ubuntu:~/catkin ws/devel/lib/beginner tutorials$
```

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